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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)					
Intor	nations	al anni	ication No.	International filing date	(day/mon		Priority date (day/month/year)
International application No. PCT/EP 03/13329 International Patent Classification (IPC) or both national classification				1	dayiiioiii	any cary	05.12.2002
			l oth national classification a	and IPC			
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1.	Auth	interiority	national preliminary exal and is transmitted to the	mination report has bee applicant according to	n prepai Article 3	rea by this inte 16.	rnational Preliminary Examining
2.	. This REPORT consists of a total of 6 sheets, including this cover sheet.						
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		bee	n amended and are the	basis for this report and	l/or shee	ts containing r	on, claims and/or drawings which have ectifications made before this Authority
		(see	Rule 70.16 and Section	n 607 of the Administrat	ive Instr	uctions under	the PCT).
	The	se an	nexes consist of a total of	of sheets.			
3.	This	repo	rt contains indications re	lating to the following it	ems:		
	1	\boxtimes	Basis of the opinion				
	H		Priority				
	Ш		Non-establishment of	opinion with regard to n	ovelty, i	nventive step a	and industrial applicability
	IV		Lack of unity of invent	ion			
	V	\boxtimes		under Rule 66.2(a)(ii) w ions supporting such st			eventive step or industrial applicability;
	VI		Certain documents cit	• • •			
	VII		Certain defects in the	international application)		
	VIII			on the international app			
Date	or sub	missio	on of the demand		Date of	f completion of th	піз героп
07.05.2004			17.03	.2005			
Name and mailing address of the international preliminary examining authority:			Authori	zed Officer	Suchas Pelanzan,		
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International application No.

PCT/EP 03/13329

I.	Basis	of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	Description, Pages					
	1-62	2	as originally filed				
	Clai	ims, Numbers					
	1-18	·	as originally filed				
2.	With lang	th regard to the language , all the elements marked above were available or furnished to this Authority in the guage in which the international application was filed, unless otherwise indicated under this item.					
	The	se elements were available or furnished to this Authority in the following language: , which is:					
		the language of publi	inslation furnished for the purposes of the international search (under Rule 23.1(b)). ication of the international application (under Rule 48.3(b)).				
		the language of a tra Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under 3).				
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:						
		contained in the inter	rnational application in written form.				
		filed together with the	e international application in computer readable form.				
		furnished subsequen	atly to this Authority in written form.				
		furnished subsequently to this Authority in computer readable form.					
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosin the international application as filed has been furnished.					
		The statement that the listing has been furni	ne information recorded in computer readable form is identical to the written sequence ished.				
4.	The	amendments have re	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5.			established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).				
		(Any replacement sh report.)	eet containing such amendments must be referred to under item 1 and annexed to this				
6.	Add	itional observations, i	f necessary:				

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- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

1-18

No:

Inventive step (IS)

Yes: Claims

Claims

6,8

No: Claims

1-5,7,9-18

Industrial applicability (IA)

Yes: Claims

1-18

No: Claims

2. Citations and explanations

see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement

Reference is made to the following documents:

D1: WO 98/04772 A (MOONEY WILLIAM; UNILEVER PLC (GB); UNILEVER NV (NL)) 5 February 1998 (1998-02-05)

D2: US-A-4 780 101 (WATANABE AKIO ET AL) 25 October 1988 (1988-10-25)

D3: EP-A-0 537 578 (BAYER AG) 21 April 1993 (1993-04-21)

1) CLAIMS 1-14

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-5, 7, and 9-14 does not involve an inventive step in the sense of Article 33(3) PCT.

1.1) Claim 1: the document **D1** is regarded as being the closest prior art to the subject-matter of claim 1, and discloses (cf. examples) a method of treating finished garments comprising cellulosic materials with cross-linking agents (e.g. 1,2,3,4butanetetracarboxylic acid).

The subject-matter of claim 1 differs from this known method in that the cross-linking agent is blocked and can be thermally activated.

The problem to be solved by the present invention may therefore be regarded as to find a method of cross-linking cellulosic materials wherein the cross-linking agent is activated by the application of heat.

The solution proposed in claim 1 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) for the following reasons: it is suggested in D1 (cf. page 4, lines 5-11) that esters of polycarboxylic acids can be used in the method as an alternative to the acids as such. Moreover, a thermal curing step is used in the method, which would activate the polycarboxylic acid esters.

EXAMINATION REPORT - SEPARATE SHEET

Furthermore, the subject-matter of claim 1 cannot be considered as involving an inventive step if the document D2 or D3 is assumed to be the closest state of the art.

- 1.2) Dependent claims 2-5, 7, and 9-14 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step.
- 1.3) Claims 6 and 8: the document D1 is regarded as being the closest prior art to the subject-matter of claims 6 and 8, and shows (cf. examples) a method of treating finished garments comprising cellulosic materials with cross-linking agents.

The subject-matter of claims 6 and 8 differs from this known method in that:

- the cross-linking agent is blocked and can be thermally activated; and
- the cross-linking agent is blocked by one of the alcohols and imides recited in claim 6. The subject-matter of claims 6 and 8 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as to find an alternative method for treating finished cellulosic garments.

The solution to this problem proposed in claims 6 and 8 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons: although it is suggested in in D1 (cf. page 4, lines 5-11) that esters of polycarboxylic acids can be used in the method as an alternative to the acids as such, there is no incentive in D1, nor in the other cited documents, to use the specific esters recited in claim 8 or to use the alcohols recited in claim 6 for the esterification.

2) <u>CLAIMS 15-18</u>

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 15-18 does not involve an inventive step in the sense of Article 33(3) PCT.

2.1) Claim 15: the document D1 is regarded as being the closest prior art to the subject-matter of claim 15, and discloses (cf. examples) a composition comprising a cross-linking agent for cellulosic materials, suitable for use in the present method.

The subject-matter of claim 15 differs from this known composition in that the cross-

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linking agent is blocked and can be thermally activated.

The problem to be solved by the present invention may therefore be regarded as to find a composition for cross-linking cellulosic materials, wherein the cross-linking agent is activated by the application of heat.

The solution proposed in claim 15 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) for the following reasons: it is suggested in D1 (cf. page 4, lines 5-11) that esters of polycarboxylic acids can be used in the composition as an alternative to the acids as such. Moreover, a thermal curing step is used in the method, which would activate the polycarboxylic acid esters.

2.2) Dependent claims 16-18 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step.